

AWithZ U2P

AWithZ U2P Portable Spot Welder Instruction Manual

Model: U2P

INTRODUCTION

Thank you for choosing the AWithZ U2P Portable Spot Welder. This compact and powerful device is designed for efficient spot welding of various battery types and thin metal plates. Featuring a large 1.5-inch LCD screen, an 11000mAh high-capacity battery, and 99 adjustable power settings, it offers versatility and precision for your welding needs. Please read this manual thoroughly before operation to ensure safe and optimal use of your device.

PRODUCT OVERVIEW

Package Contents

The AWithZ U2P Portable Spot Welder package includes the following items:

- 1 x AWithZ U2P Spot Welder
- 1 x Pair of 40 cm long Spot Welding Pens
- 1 x 2-meter Nickel Plated Sheet (0.9 cm wide, 0.1 mm thick)
- 1 x 50 cm long Type-C Charging Cable
- 1 x Piece of Matte Paper (Sandpaper)
- 1 x User Manual

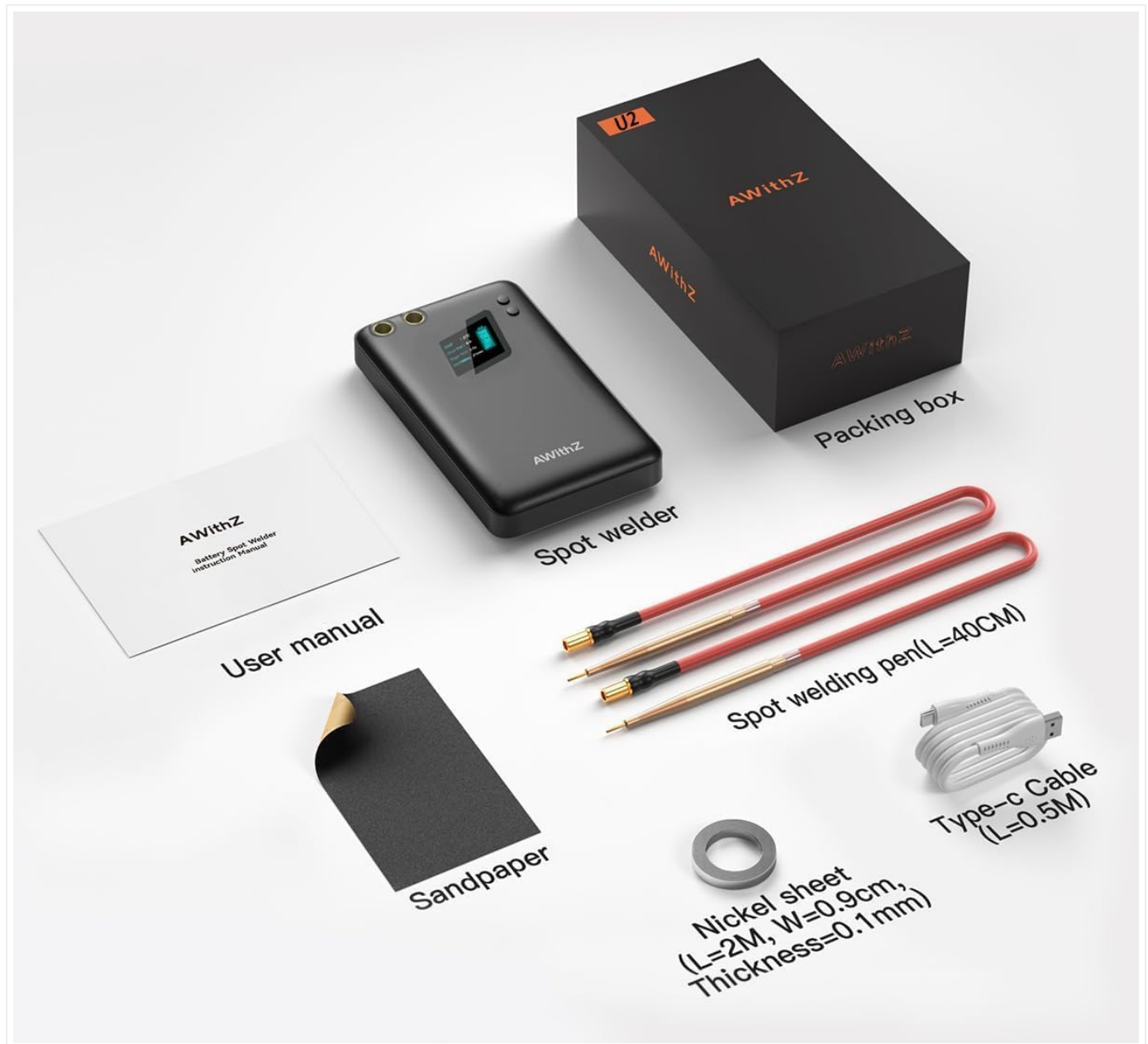


Image: All components included in the AWithZ U2P Spot Welder package, including the welder, welding pens, nickel sheet, Type-C cable, sandpaper, and user manual.

Key Features

- **Large 1.5-inch LCD Screen:** Provides clear display of battery level, temperature, welding gear, trigger time, and continuous welding status.
- **Intuitive Button Design:** Easy-to-use controls for power, option selection, and gear adjustment.
- **Versatile Applications:** Ideal for repairing damaged electronic devices by replacing batteries, building custom battery packs (e.g., 18650 battery packs, e-bike battery packs), and welding various thin metal sheets.
- **Upgraded Continuous Welding Function:** Allows for two continuous spot welds, enabling stronger welds and suitability for thicker materials.
- **High-Performance 11000mAh Battery:** Offers extended operation and charges fully in approximately 3.5 hours.
- **99 Adjustable Welding Gears:** Fine-tune welding power for different materials and thicknesses, from mobile phone batteries to thicker nickel strips.



Image: The AWWithZ U2P Spot Welder showcasing its 1.5-inch LCD screen and compact design.

SAFETY INSTRUCTIONS

To prevent injury or damage to the device, please observe the following safety precautions:

- Always wear appropriate personal protective equipment, including safety glasses, when operating the spot welder.
- Ensure adequate ventilation in your workspace to disperse any fumes.
- Do not operate the device near flammable materials or liquids.
- Keep the device and its components dry. Avoid exposure to moisture or water.
- Handle batteries with care. Do not short-circuit batteries or expose them to extreme temperatures.
- Ensure the welding pens are securely connected before use.
- Do not touch the welding tips during or immediately after operation, as they can be extremely hot.
- Keep out of reach of children and unauthorized personnel.
- If the device shows signs of damage or malfunction, discontinue use immediately and contact support.



Image: Detailed diagram illustrating the various ports and control buttons on the AWithZ U2P Spot Welder.

- 1. USB Output:** Used for charging external devices (Power Bank function).
- 2. Type-C Charging Port:** For charging the spot welder itself.
- 3. ON/OFF Button / Option Switch:** Press and hold to power on/off. Short press to select options.
- 4. LCD Display:** Shows device status, settings, and information.
- 5. Welding Pen Ports:** Connect the welding pens here.
- 6. Adjust Button (+):** Used to increase values or navigate forward in menus.
- 7. Adjust Button (-):** Used to decrease values or navigate backward in menus.

SETUP

1. Charging the Device

Before first use, fully charge the spot welder. Connect the provided Type-C charging cable to the device's Type-C port (2) and a suitable USB power adapter (not included). The 11000mAh battery typically takes about 3.5 hours to fully charge. The LCD screen will indicate the charging status.

2. Connecting Welding Pens

Insert the plugs of the welding pens firmly into the welding pen ports (5) on the top of the device. Ensure a secure connection to prevent poor conductivity during welding.

3. Power On/Off

To power on the device, press and hold the ON/OFF button (3) for a few seconds until the LCD screen illuminates. To power off, press and hold the same button until the screen turns off.

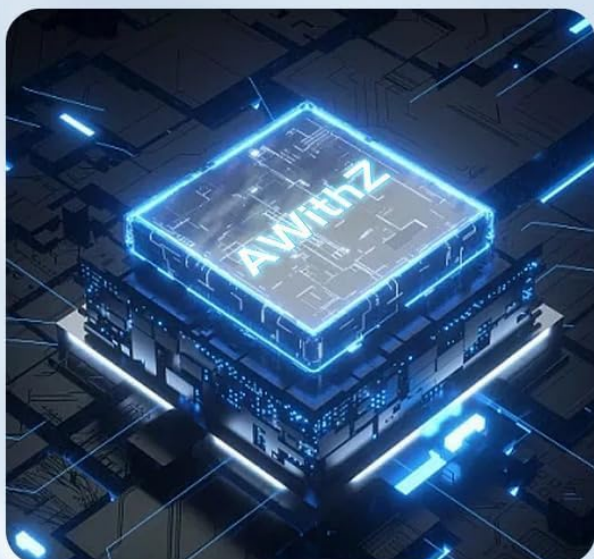
1. Understanding the LCD Display

The 1.5-inch LCD screen (4) provides real-time information:

- **TEMP:** Current device temperature.
- **Select Gear:** The currently selected welding power level (1.0 to 9.9).
- **Trigger Time:** The delay before welding initiates after contact.
- **Cont Welding:** Indicates if continuous welding is enabled and the number of continuous welds (e.g., 1Times, 2Times).
- **Battery Level:** Graphical representation of remaining battery charge.

Safely Use for Welding

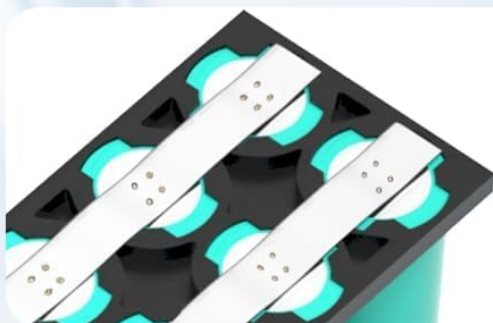
Easily Make a Battery Pack



**High
Capacity**



**Multiple
Protection**



1.0~1.9 Gear



2.0~2.9 Gear



3.0~3.9 Gear



4.0~2.9 Gear



5.0~5.9 Gear



6.0~6.9 Gear



7.0~7.9 Gear



8.0~9.9 Gear

Image: Close-up of the AWWithZ U2P Spot Welder's LCD screen, displaying temperature, selected gear, trigger time, continuous welding setting, and battery level.

2. Adjusting Welding Gears (Power Levels)

The device offers 99 adjustable welding gears (power levels) to suit various materials and thicknesses. Use the Adjust Buttons (+) (6) and (-) (7) to navigate and change the 'Select Gear' setting on the LCD.

- **Gears 1.0 - 3.9:** Suitable for welding mobile phone batteries and very thin materials.

- **Gears 4.0 - 7.0:** Recommended for materials with a thickness of 0.1 mm to 0.15 mm.
- **Gears 7.1 - 9.9:** For thicker materials ranging from 0.15 mm to 0.25 mm.

Always perform test welds on scrap material to determine the optimal gear setting for your specific application.



Image: Visual guide demonstrating various welding gear settings and the resulting weld patterns on nickel strips, indicating suitability for different material thicknesses.

3. Continuous Welding Function

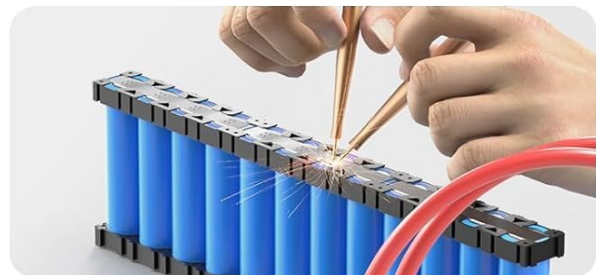
The continuous welding function allows for multiple welds in quick succession without lifting the welding pens. If enabled, and the pen is not released after the first weld, the device will automatically trigger the set number of consecutive welds. This feature enhances weld strength and is particularly useful for thicker materials or applications requiring stronger bonds.

Application of spot welding machine

This spot welding machine can be used to weld various types of batteries and thin metal plates

18650 battery welding

Various cylindrical batteries such as 18650 assembled by welding



Mobile phone battery welding

Support welding of various types of mobile phone batteries



Other welding

Welding small batteries and various metal sheets



Image: Depiction of the continuous welding function, showing how multiple spot welds are applied to battery cells for increased strength.

4. Applications

The AWithZ U2P Spot Welder is suitable for a variety of tasks:

- **18650 Battery Welding:** Assemble cylindrical batteries into custom battery packs.
- **Mobile Phone Battery Welding:** Repair or replace batteries in various mobile electronic devices.
- **Other Welding:** Weld small batteries and various thin metal sheets.

Application of spot welding machine

This spot welding machine can be used to weld various types of batteries and thin metal plates



After enabling Cont Welding, the welding strength will be stronger, exceeding the upper limit of the gear position

Image: Visual examples of the spot welding machine's applications, including welding 18650 battery packs, mobile phone batteries, and small metal components.

5. Power Bank Function

The AWithZ U2P can also function as a power bank. Connect your mobile phone or other USB-powered devices to the USB output port (1) to charge them using the welder's internal 11000mAh battery.

Power Bank Function

- 11000mAh Larger Capacity Battery -



Image: The AWithZ U2P Spot Welder being used to charge a smartphone, highlighting its secondary function as a portable power bank.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your spot welder:

- **Cleaning:** Regularly clean the welding tips and the device body with a dry, soft cloth. Ensure no metal dust or debris accumulates around the welding pens or ports.
- **Tip Condition:** Inspect welding tips for wear or oxidation. Use the provided matte paper (sandpaper) to gently clean and sharpen the tips if necessary to ensure good conductivity.
- **Storage:** Store the device in a cool, dry place away from direct sunlight, moisture, and extreme temperatures.
- **Battery Care:** For long-term storage, charge the battery to approximately 50-70% capacity. Avoid fully discharging the battery for extended periods.
- **Cable Inspection:** Periodically check the Type-C charging cable and welding pens for any signs of damage. Replace if worn or frayed.

TROUBLESHOOTING

If you encounter issues with your AWithZ U2P Spot Welder, refer to the following common problems and solutions:

- **Device does not power on:** Ensure the battery is charged. Connect the Type-C cable and charge for at least 30 minutes before attempting to power on again.
- **Weak or inconsistent welds:**
 - Check the welding gear setting. Increase the gear level if the material is thicker.
 - Ensure welding tips are clean and sharp. Use sandpaper to remove oxidation.
 - Verify that the welding pens are securely connected to the device.
 - Apply firm and even pressure to both welding tips on the material.
- **Device overheats:** If the temperature displayed on the LCD is high, allow the device to cool down before continuing operation. Avoid prolonged continuous use at maximum power settings.
- **LCD screen is blank or unresponsive:** Try restarting the device by holding the ON/OFF button. If the issue persists, ensure the battery is charged.
- **Power Bank function not working:** Ensure the device is powered on and the external device is properly connected to the USB output port. Check the external device's charging cable.

If these steps do not resolve your issue, please contact AWithZ customer support for further assistance.

SPECIFICATIONS

Manufacturer	AWithZ
Model	U2P
Battery Type	Lithium-polymer (1 included)
Battery Capacity	11000 mAh
Charging Time	Approx. 3.5 hours
Adjustable Gears	99 levels
LCD Screen Size	1.5 inches
Power Type	Battery Powered
Package Dimensions	8 x 5 x 3 cm
Package Weight	300 grams
Included Components	Spot Welder, Welding Pens, Nickel Sheet, Type-C Cable, Matte Paper

WARRANTY AND SUPPORT

Information regarding specific warranty terms for the AWithZ U2P Portable Spot Welder is not provided in this manual. For warranty claims, technical support, or inquiries about spare parts, please refer to the purchase documentation or contact AWithZ customer service directly through their official website or the retailer where the product was purchased.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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